In the claims:

Please cancel claims 10, 22, and 23.

Claims 4-7, 13-16, 18-20, and 24-31 have been withdrawn by the Examiner pursuant to a restriction requirement.

Please amend claims 1, 12, and 21 as follows:

1. (Currently Amended) A coaxial probe for <u>high frequency</u> testing of planar electric transmission line structures, said probe comprising:

a probe mount comprising a coaxial connector;

a center electrode mounted on said probe mount and electrically connected to a center conductor of said coaxial connector, wherein said center conductor may be placed in contact with a first point on a planar electric transmission line structure to be tested;

an non-circular outer electrode mounted on said probe mount and electrically connected to ground, said outer electrode comprising a protrusion to be placed in contact with a second point on the planar electric transmission line structure to be tested wherein a pitch of said protrusion can be varied by affixing said protrusion on said outer electrode to match a pitch between the first point and the second point without affecting a characteristic impedance of a coaxial cable assembly, the coaxial connector and said probe mount; and

a dielectric of non-uniform thickness between said center and said outer electrodes, wherein said coaxial probe is configured to match said characteristic impedance.

- 2. (Original) The probe of claim 1 wherein said probe mount comprises a conductive plate.
- 3. (Original) The probe of claim 2 wherein said dielectric comprises air.
 - 4. (Withdrawn)
 - 5. (Withdrawn)
 - 6. (Withdrawn)
 - 7. (Withdrawn)
- 8. (Original) The probe of claim 1 wherein said outer electrode comprises a conductive tube having said non-circular cross-section.
- 9. (Original) The probe of claim 8 wherein said outer electrode has a cross-section selected from the group consisting of oval, square, rectangular, hexagonal, L-shaped, and U-shaped.
 - 10. (Canceled)
- 11. (Original) The probe of claim 1 wherein a pitch between said center electrode and said protrusion is fixed.

- 12. (Currently Amended) The probe of claim 1 wherein said protrusion comprises a 60-degree tapered point.
 - 13. (Withdrawn)
 - 14. (Withdrawn)
 - 15. (Withdrawn)
- 16. (Original) The probe of claim 1 wherein said probe is handheld during testing of the planar electric transmission line structure.
- 17. (Original) The probe of claim 1 wherein <u>said characteristic</u> impedance characteristics of said probe substantially match<u>es</u> those of a coaxial cable attached to said connector characteristic impedance.
 - 18. (Withdrawn)
 - 19. (Withdrawn)
 - 20. (Withdrawn)
- 21. (Currently Amended) A coaxial probe for <u>high frequency</u> testing of planar electric transmission line structures, said probe comprising:

 a probe mount;

a center electrode mounted on said probe mount, wherein said a center conductor may be placed in contact with a first point on a planar electric transmission line structure to be tested; and

an outer electrode comprising a protrusion, wherein a pitch of said protrusion can be varied by affixing said protrusion on said outer electrode to match a pitch between the first point and a second point without affecting a characteristic impedance of a coaxial cable assembly, a coaxial connector and said probe mount, attached on a ef-non-circular cross-section casing mounted on said probe mount, wherein said coaxial probe is configured to match said characteristic impedance.

- 22. (Canceled)
- 23. (Canceled)
- 24. (Withdrawn)
- 25. (Withdrawn)
- 26. (Withdrawn)
- 27. (Withdrawn)
- 28. (Withdrawn)
- 29. (Withdrawn)

- 30. (Withdrawn)
- 31. (Withdrawn)

Please add the following claims:

- 32. (Currently Added) The probe of claim 1 wherein said outer electrode comprises an axially spring loaded conductor.
- 33. (Currently Added) The probe of claim 1 wherein said coaxial connector comprises a resilient coaxial connector.
- 34. (Currently Added) The probe of claim 21 wherein said outer electrode comprises an axially spring loaded conductor.
- 35. (Currently Added) The probe of claim 21 wherein said coaxial connector comprises a resilient coaxial connector.